

WHAT IS CLAIMED IS:

1. A method for generating an optimized dispatch plan for at least one of a plurality of distributed resources comprising:
 - 5 receiving information associated with at least one of a plurality of distributed resources; and
 - generating at least one of a plurality of optimized dispatch plans for the at least one of a plurality of distributed resources based on the received information.
- 10 2. The method of claim 1, wherein generating the at least one optimized dispatch plan comprises using at least one of a plurality of artificial intelligence agents.
3. The method of claim 1, wherein generating the at least one optimized
15 dispatch plan comprises using probabilistic techniques.
4. The method of claim 1, wherein the information associated with the at least one of a plurality of distributed resources comprises information associated with the energy output of the at least one distributed resource.
- 20 5. The method of claim 1, wherein the information associated with the at least one of a plurality of distributed resources comprises information associated with a price at which energy is sold.
- 25 6. The method of claim 1, wherein the information associated with the at least one of a plurality of distributed resources comprises information associated with maintenance of the at least one distributed resource.

7. The method of claim 1, wherein the information associated with the at least one of a plurality of distributed resources comprises information associated with reliability of the at least one distributed resource.

5 8. The method of claim 1, wherein the information associated with the at least one of a plurality of distributed resources comprises information associated with efficiency of the at least one distributed resource.

10 9. The method of claim 1, wherein the information associated with the at least one of a plurality of distributed resources comprises information associated with availability of the at least one distributed resource.

15 10. The method of claim 1, wherein the information associated with the at least one of a plurality of distributed resources comprises information associated with cost savings associated with the use of the at least one distributed resource.

20 11. The method of claim 1, wherein the information associated with the at least one of a plurality of distributed resources comprises information associated with power line flows associated with the use of the at least one distributed resource.

25 12. The method of claim 1, wherein the information associated with the at least one of a plurality of distributed resources comprises information associated with voltage profiles.

13. The method of claim 1, further comprising selecting one of the plurality of dispatch plans based on a plurality of rules.

30 14. The method of claim 1, further comprising receiving user input and selecting one of the plurality of dispatch plans based on the user input.

15. The method of claim 1, wherein the at least one optimized dispatch plan is based on economic considerations.

5 16. The method of claim 1, wherein the at least one optimized dispatch plan is based on engineering considerations.

17. A computer-implemented system for generating an optimized dispatch plan for distributed resources comprising:

- 10 a data collector that collects information associated with at least one of a plurality of distributed resources;
- a data verifier that verifies said information received from said data collector and generates verified information;
- a data formatter that receives said verified information from said data
- 15 verifier and formats said verified information;
- a plan generator that receives said verified and formatted information and generates an optimized dispatch plan for distributed resources.

18. The system of claim 15, wherein the plan generator utilizes

20 probabilistic techniques.

19. The system of claim 15, wherein the plan generator comprises at least one of a plurality of artificial intelligence agents.

25 20. A computer-readable medium comprising computer-readable instructions for:

receiving information associated with at least one of a plurality of distributed resources; and

generating at least one of a plurality of optimized dispatch plans for the at

30 least one of a plurality of distributed resources based on the received information.